

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference S1680150	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. PCT/CA 03/ 00330	International filing date (day/month/year) 11/03/2003	(Earliest) Priority Date (day/month/year) 11/03/2002
Applicant SIMON FRASER UNIVERSITY		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

1 None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/00330

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, MEDLINE, EMBASE, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RAJSKI SCOTT R ET AL: "How different DNA-binding proteins affect long-range oxidative damage to DNA" BIOCHEMISTRY, vol. 40, no. 18, 8 May 2001 (2001-05-08), pages 5556-5564, XP002260671 ISSN: 0006-2960 page 5560, right-hand column, last paragraph -page 5561, right-hand column, paragraph 1; figure 5 ---	1-7, 15, 16, 21-25, 31, 32, 35, 36
Y	page 5560, right-hand column, last paragraph -page 5561, right-hand column, paragraph 1; figure 5 ---	8, 17-20, 29

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents; such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the International search

7 November 2003

Date of mailing of the International search report

25/11/2003

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/00330

C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 221 586 B1 (BARTON JACQUELINE K ET AL) 24 April 2001 (2001-04-24) column 6, line 65 -column 7, line 26 column 13, line 7-22 column 13, line 66 -column 14, line 36	1-7, 9-16, 21-28, 30-34
Y		8,17-20, 29
Y	HUIZENGA D E ET AL: "A DNA APTAMER THAT BINDS ADENOSINE AND ATP" BIOCHEMISTRY, AMERICAN CHEMICAL SOCIETY, EASTON, PA, US, vol. 34, no. 2, 17 January 1995 (1995-01-17), pages 656-665, XP001031222 ISSN: 0006-2960 figure 7	8,29
Y	ODOM DUNCAN T ET AL: "Charge transport through DNA four-way junctions" NUCLEIC ACIDS RESEARCH, vol. 29, no. 10, 15 May 2001 (2001-05-15), pages 2026-2033, XP002260672 ISSN: 0305-1048 abstract; figures 5,6	17-20
P,X	FAHLMAN RICHARD P ET AL: "DNA conformational switches as sensitive electronic sensors of analytes" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 124, no. 17, 1 May 2002 (2002-05-01), pages 4610-4616, XP002260673 ISSN: 0002-7863 the whole document	1-36
T	FAN CHUNHAI ET AL: "Electrochemical interrogation of conformational changes as a reagentless method for the sequence-specific detection of DNA." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 100, no. 16, 5 August 2003 (2003-08-05), pages 9134-9137, XP002260674 August 5, 2003 ISSN: 0027-8424 (ISSN print)	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 03/00330

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 6221586	B1	24-04-2001	AU 3550699 A	25-10-1999
			EP 068359 A1	17-01-2001
			JP 2002510791 T	09-04-2002
			WO 9951778 A1	14-10-1999
			US 2002055103 A1	09-05-2002
			US 2002146716 A1	10-10-2002